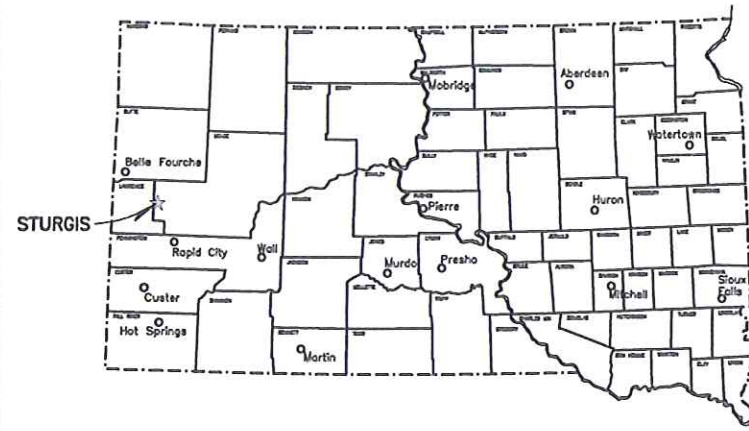


STURGIS WATER SYSTEM IMPROVEMENTS - PHASE 1

STURGIS MUNICIPAL UTILITY BOARD

STURGIS, SOUTH DAKOTA

JUNE 30, 2010

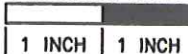


PROJECT LOCATION

TOPO LEGEND

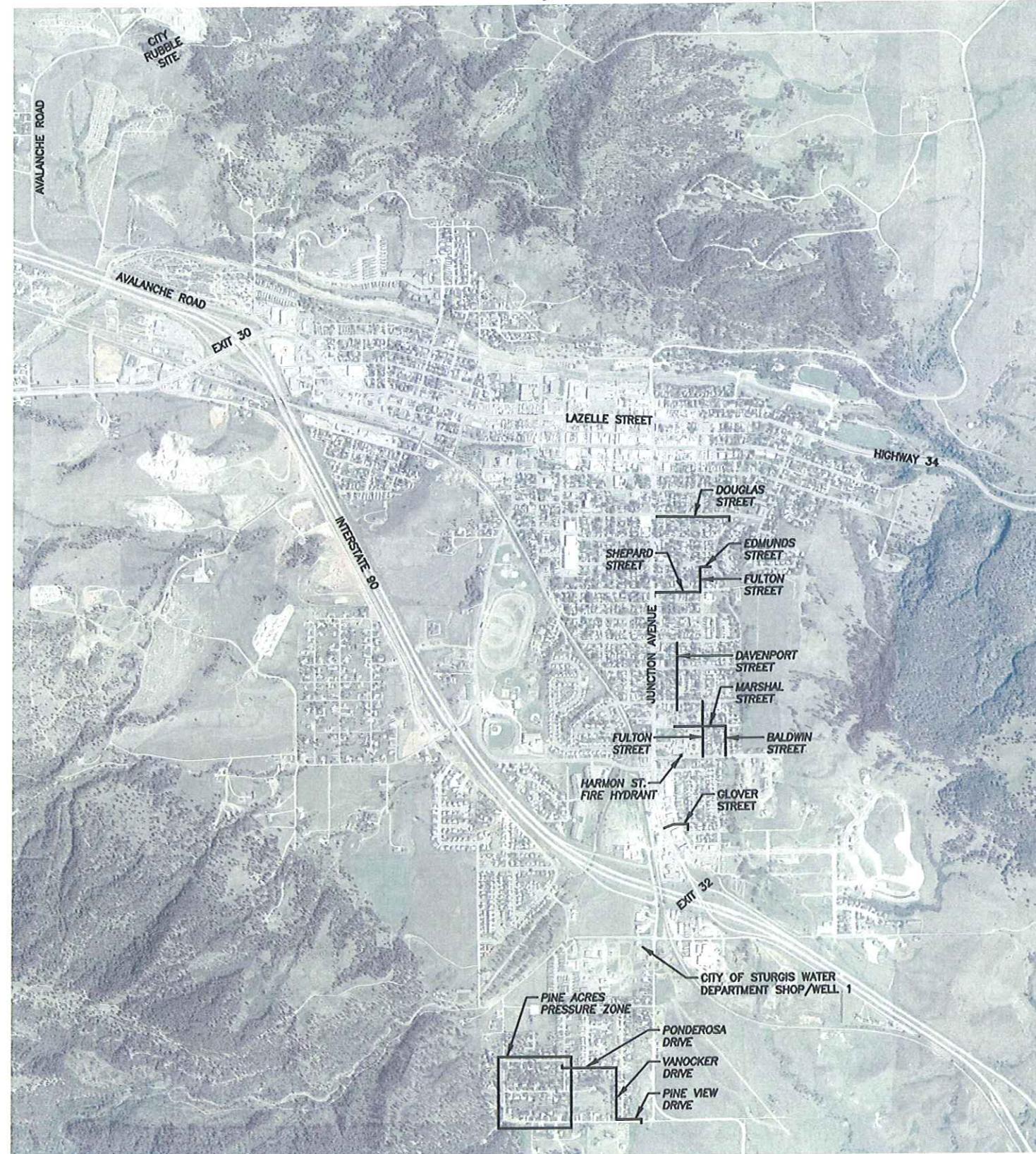
△	CONTROL POINT	⊙	STORM SEWER MANHOLE
●	BENCH MARK	⊙	STORM SEWER INLET
⊙	R.O.W. MONUMENT	⊙	SINGLE POST SIGN
⊙	IRON PIPE	⊙	MULTI POST SIGN
⊙	IRON ROD	⊙	DELINEATOR
⊙	POWER POLE	⊙	RAILROAD SIGNAL
⊙	POWER/LIGHT POLE	⊙	BOLLARD
⊙	LIGHT POLE	⊙	BOREHOLE
⊙	GUY POLE	⊙	UNKNOWN MANHOLE
⊙	GUY WIRE	⊙	COLUMN
⊙	TRAFFIC LIGHT	⊙	MAILBOX
⊙	ELECTRIC JUNCTION BOX	⊙	OVERHEAD POWER
⊙	ELECTRIC MANHOLE	⊙	OVERHEAD TELEPHONE
⊙	TELEPHONE	⊙	UNDERGROUND CABLE TV
⊙	TELEPHONE BOX	⊙	UNDERGROUND ELECTRIC
⊙	TELEPHONE MANHOLE	⊙	UNDERGROUND TELEPHONE
⊙	CABLE TV BOX	⊙	FIBER OPTIC
⊙	GAS METER/VALVE	⊙	GAS LINE
⊙	WATER MANHOLE	⊙	SANITARY SEWER
⊙	WELL/TYPE	⊙	WATER LINE
⊙	WATER VALVE	⊙	STORM SEWER
⊙	POST INDICATOR VALVE	⊙	BARBED WIRE FENCE
⊙	CURB STOP	⊙	CHAIN LINK FENCE
⊙	FIRE HYDRANT	⊙	WOOD FENCE
⊙	YARD HYDRANT	⊙	WOVEN WIRE FENCE
⊙	SPRINKLER HEAD	⊙	CONCRETE
⊙	SEWER	⊙	STUMP
⊙	SEWER CLEAN OUT	⊙	BUSH
⊙	DECIDUOUS TREE	⊙	CONIFEROUS TREE

REDUCTION SCALE



LEGEND

STATE AND NATIONAL LINE	---
COUNTY LINE	---
SECTION LINE	---
QUARTER LINE	---
SIXTEENTH LINE	---
PROPERTY LINE	---
SURVEY LINE	---
R.O.W. LINE	---
PERMANENT EASEMENT LINE	---
CUT SLOPES	---
FILL SLOPES	---



VICINITY MAP

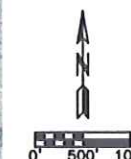
INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.1	Title Sheet
2.1	Project Layout Map and Water Main Replacement Areas
2.2	Hospital Area
2.3	Glover Street
2.4	Davenport Street
2.5	Shepard Street and Fulton Street
2.6	Douglas Street
2.7	Vanocker Drive and Ponderosa Drive
2.8	Pine Acres Pressure Zone
3.1 to 3.5	General Notes and Estimate of Quantities
4.1	Traffic Control and Project Phasing Notes
4.2 to 4.5	Traffic Control Details
4.6	Hospital Area Traffic Control Plan
4.7	Glover Street Traffic Control Plan
4.8	Davenport Street Traffic Control Plan
4.9	Shepard Street and Fulton Street Traffic Control Plan
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4.11 to 4.12	Ponderosa Drive and Vanocker Drive Traffic Control Plan
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5.3 to 5.6	Hospital Area P&P (Fulton Street)
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5.11 to 5.12	Glover Street P&P
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5.21 to 5.26	Shepard Street and Fulton Street P&P
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6.1 to 6.4	Water Main and Trench Standard Details
6.5 to 6.6	Water Service Standard Details
6.7 to 6.9	Standard Details
6.10 to 6.13	Erosion & Sediment Control Standard Details
7.1	Hospital Area Erosion Control Plan
7.2	Glover Street Erosion Control Plan
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7.4	Shepard Street and Fulton Street Erosion Control Plan
7.5	Douglas Street Erosion Control Plan
7.6 TO 7.7	Ponderosa Drive and Vanocker Drive Erosion Control Plan

WATER SUPERINTENDANT
ERIC TIBBETTS

MUNICIPAL UTILITY BOARD MEMBERS
CHRIS R. MECHLING, CHAIRMAN
DAN MAYER
KEN SABERS

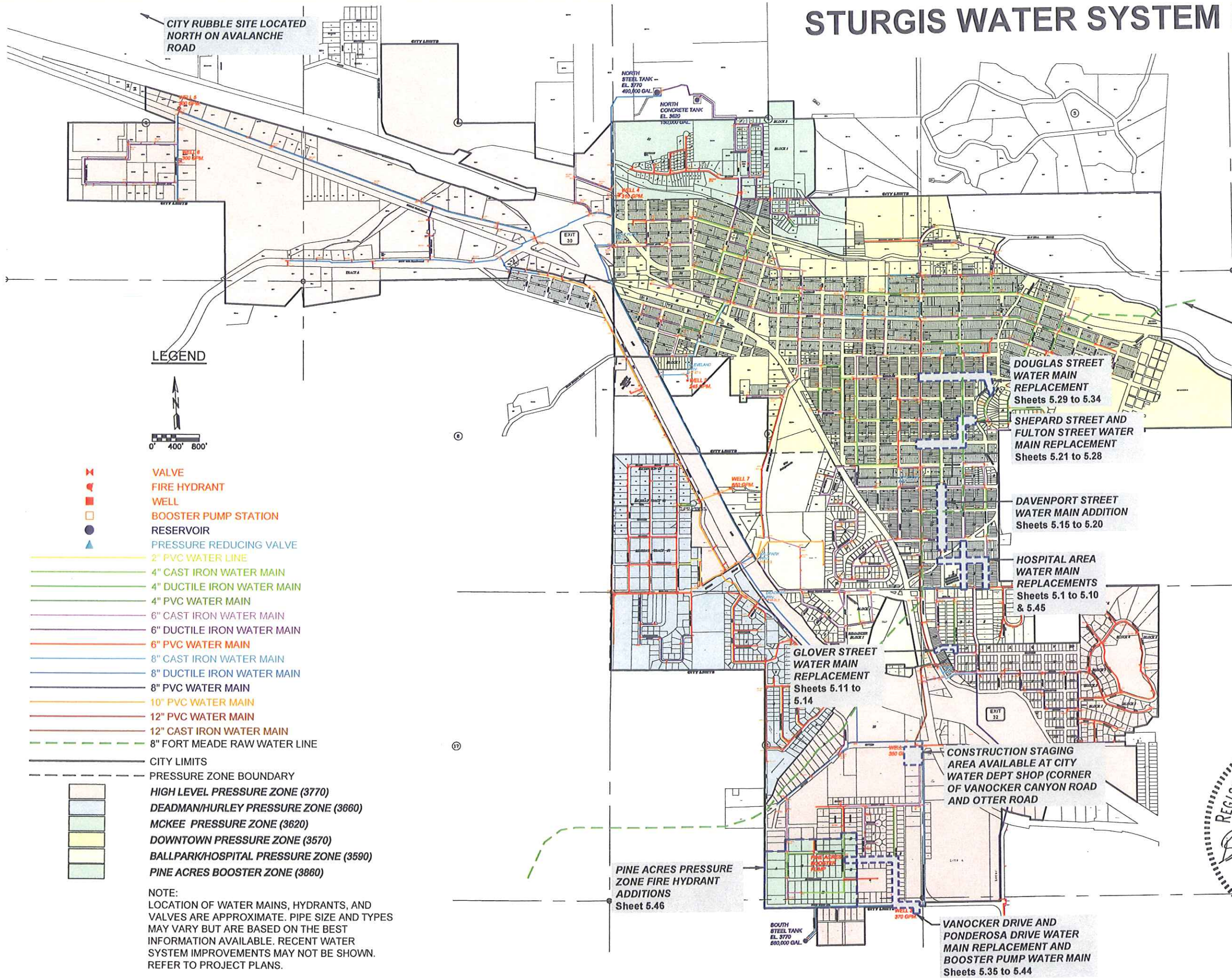
WATER SUPERVISOR
DALE OLSON



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JUNE 30, 2010

STURGIS WATER SYSTEM LAYOUT



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DETAILED: MS
CHECKED: JS
APPROVED: BT
DATE: JUNE 30, 2010

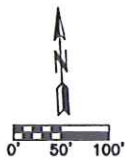
SHEET DESCRIPTION:
PROJECT LAYOUT MAP AND WATER MAIN REPLACEMENT AREAS

PROJECT:
STURGIS WATER SYSTEM IMPROVEMENTS
STURGIS MUNICIPAL UTILITY BOARD
STURGIS, SOUTH DAKOTA

SHEET:
2.1

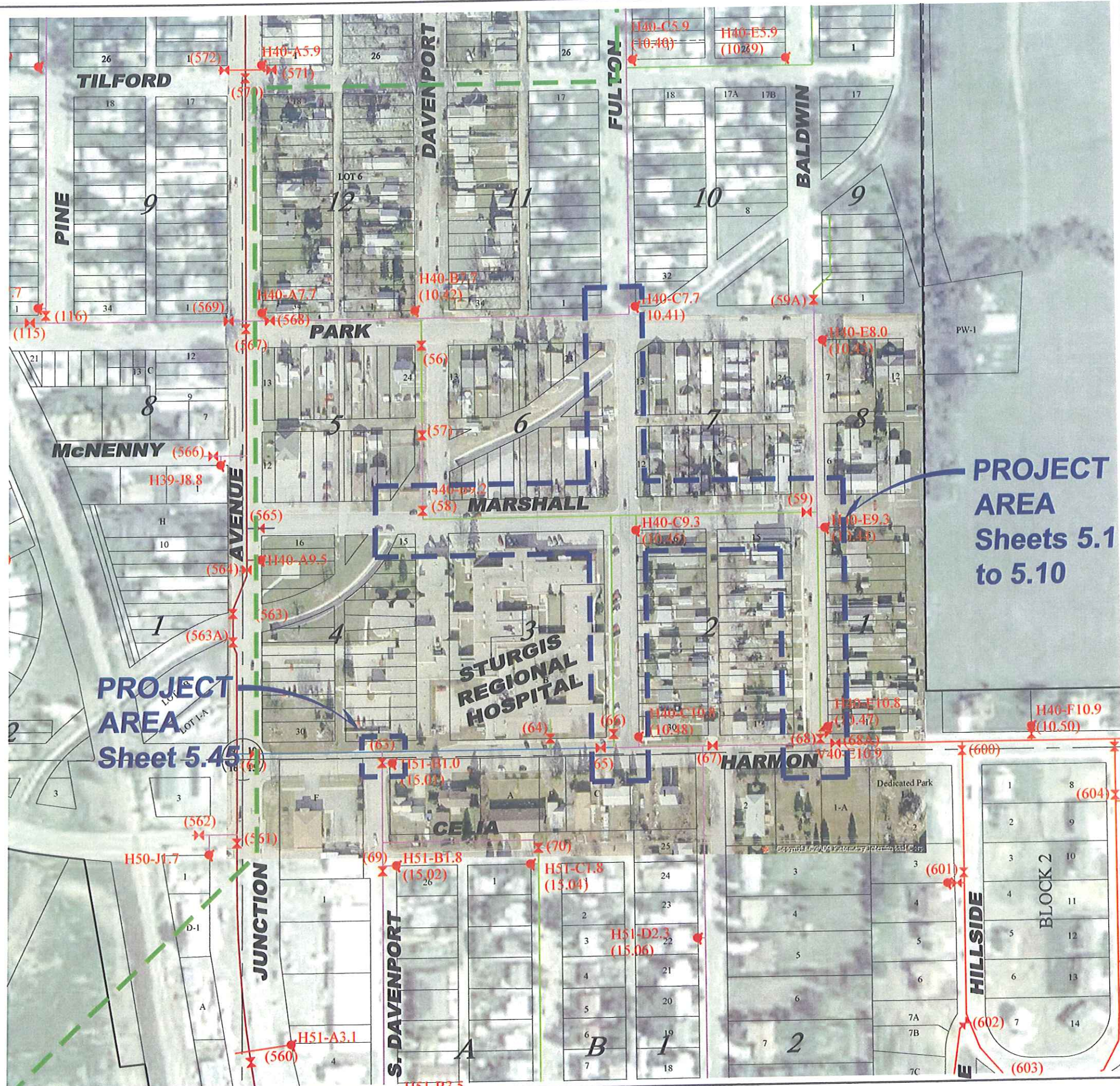


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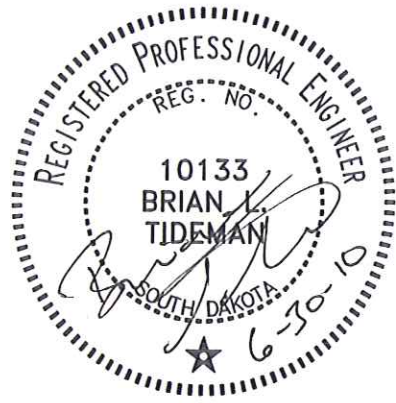
- VALVE
- FIRE HYDRANT
- WELL
- BOOSTER PUMP STATION
- RESERVOIR
- PRESSURE REDUCING VALVE
- 2" PVC WATER LINE
- 4" CAST IRON WATER MAIN
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- PINE ACRES BOOSTER ZONE (3860)

NOTE:
LOCATION OF WATER MAINS, HYDRANTS, AND VALVES ARE APPROXIMATE. PIPE SIZE AND TYPES MAY VARY BUT ARE BASED ON THE BEST INFORMATION AVAILABLE. RECENT WATER SYSTEM IMPROVEMENTS MAY NOT BE SHOWN. REFER TO PROJECT PLANS.

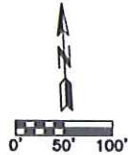


PROJECT AREA
Sheets 5.1
to 5.10

PROJECT: STURGIS WATER SYSTEM IMPROVEMENTS STURGIS MUNICIPAL UTILITY BOARD STURGIS, SOUTH DAKOTA		SHEET DESCRIPTION: HOSPITAL AREA WATER MAIN REPLACEMENT AREA	
DESIGNED: BT	CHECKED: BT	DATE: JUNE 30, 2010	2.2
cetec ENGINEERING SERVICES, INC. 1560 Concourse Drive Rapid City, SD 57703 Phone: (605) 341-7800 Fax: (605) 341-7864 www.cetecengineering.com			

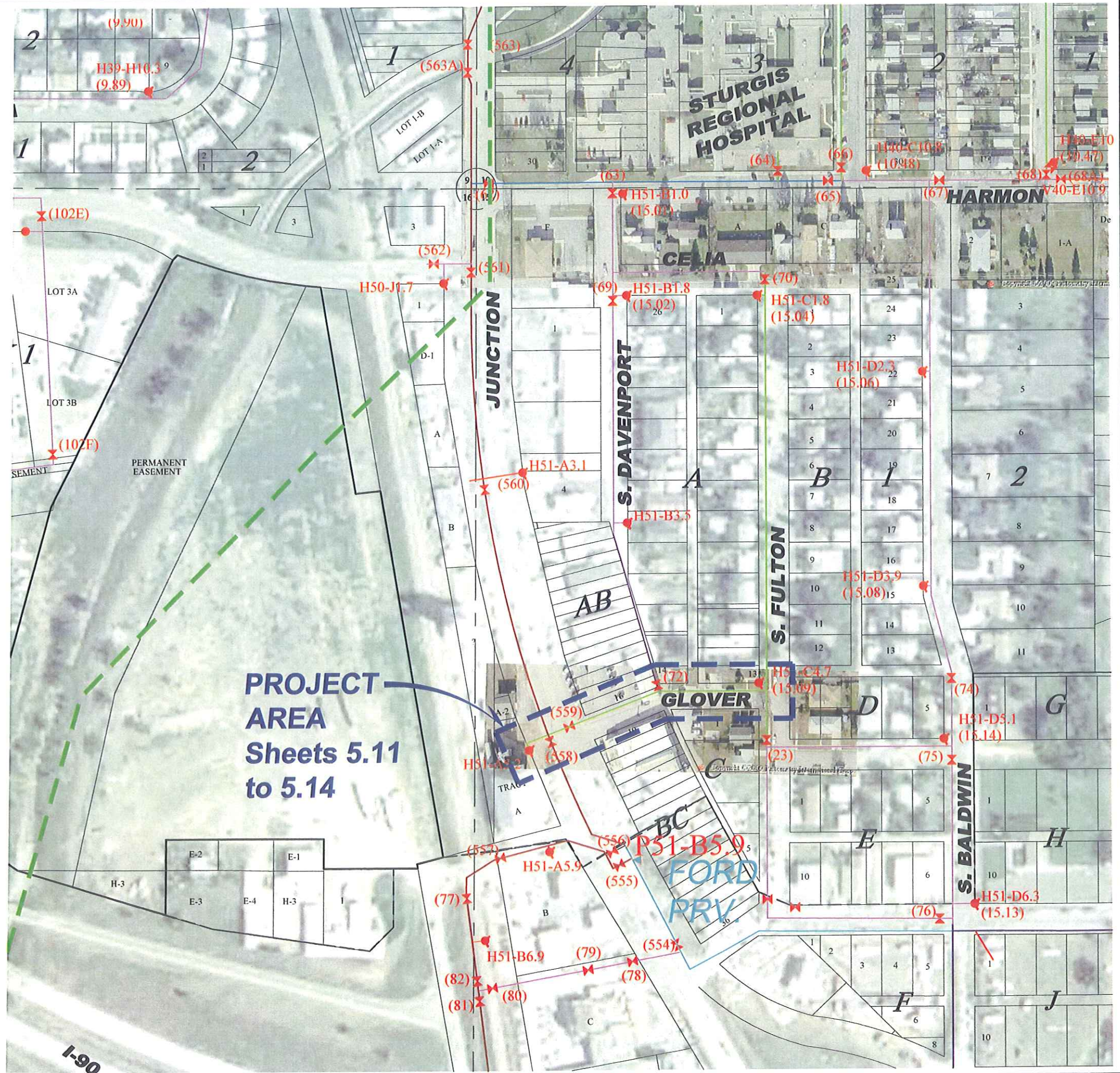


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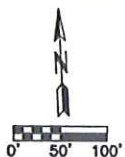
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REFER TO PROJECT PLANS.



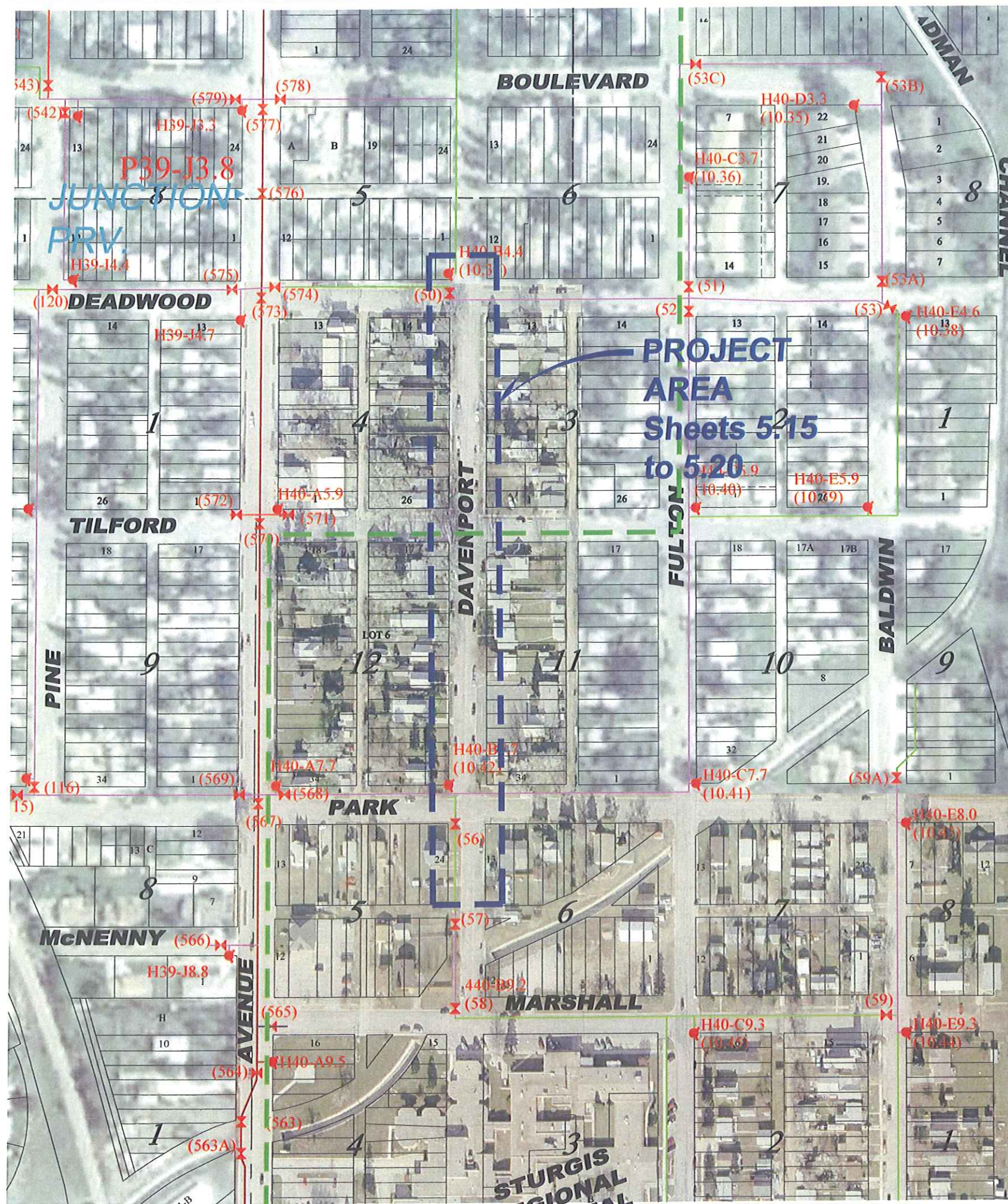


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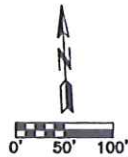
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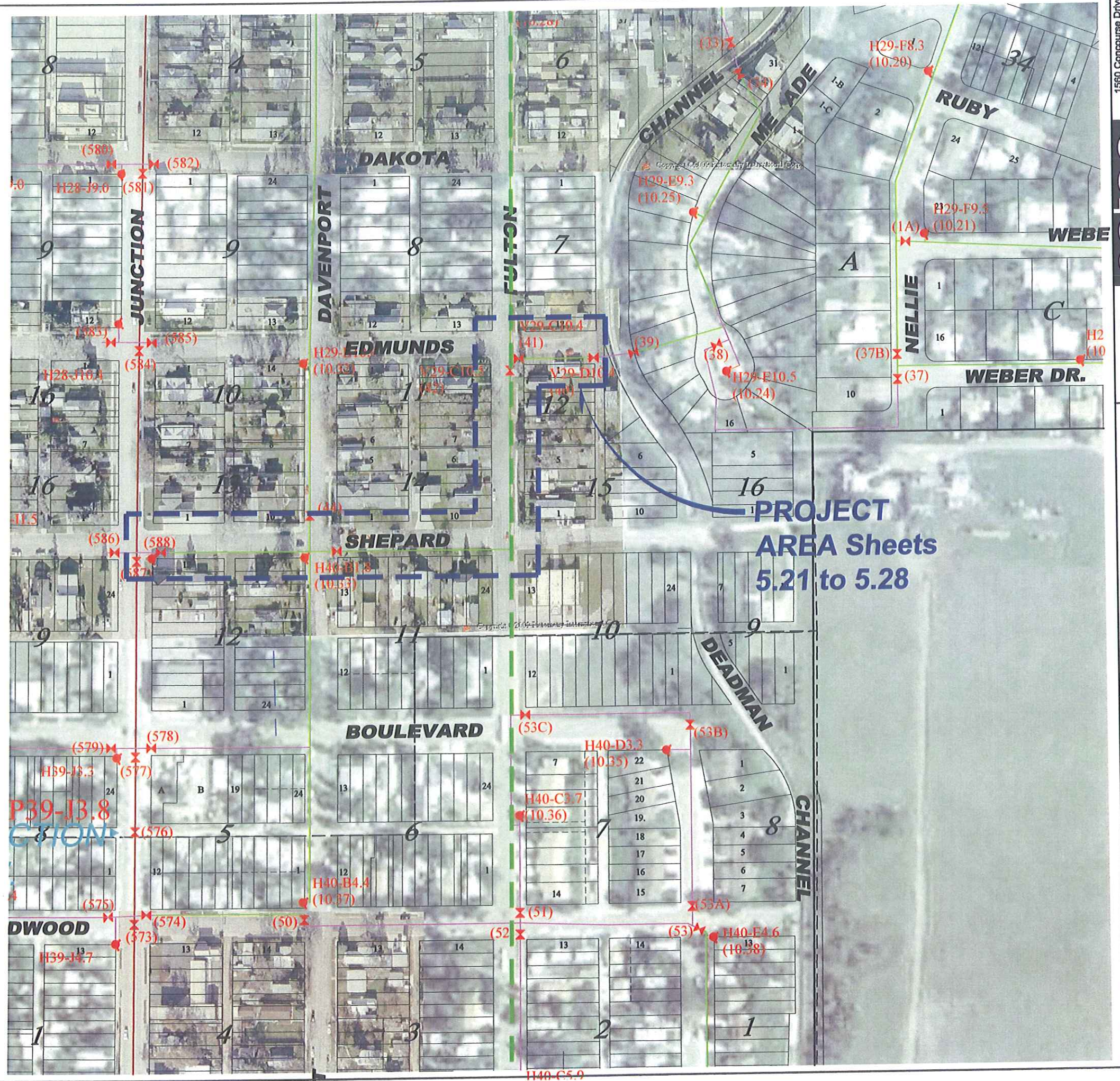


LEGEND



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- WELL
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PROJECT
AREA Sheets
5.21 to 5.28

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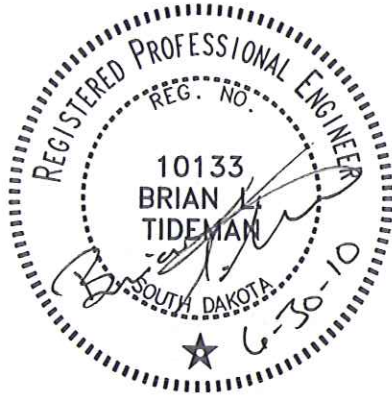
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ENGINEERING SERVICES, INC.

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DATE	JUNE 30, 2010

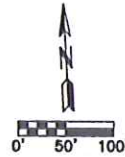
SHEET DESCRIPTION:
SHEPARD STREET AND FULTON STREET
WATER MAIN REPLACEMENT AREAS

PROJECT:
STURGIS WATER SYSTEM IMPROVEMENTS
STURGIS MUNICIPAL UTILITY BOARD
STURGIS, SOUTH DAKOTA

SHEET:
2.5



LEGEND



- VALVE
- FIRE HYDRANT
- WELL
- BOOSTER PUMP STATION
- RESERVOIR
- PRESSURE REDUCING VALVE
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APPROVED	BT
DATE	JUNE 30, 2010

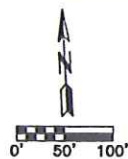
PROJECT DESCRIPTION:
DOUGLAS STREET
WATER MAIN REPLACEMENT AREA

PROJECT:
STURGIS WATER SYSTEM IMPROVEMENTS
STURGIS MUNICIPAL UTILITY BOARD
STURGIS, SOUTH DAKOTA

SHEET:
2.6



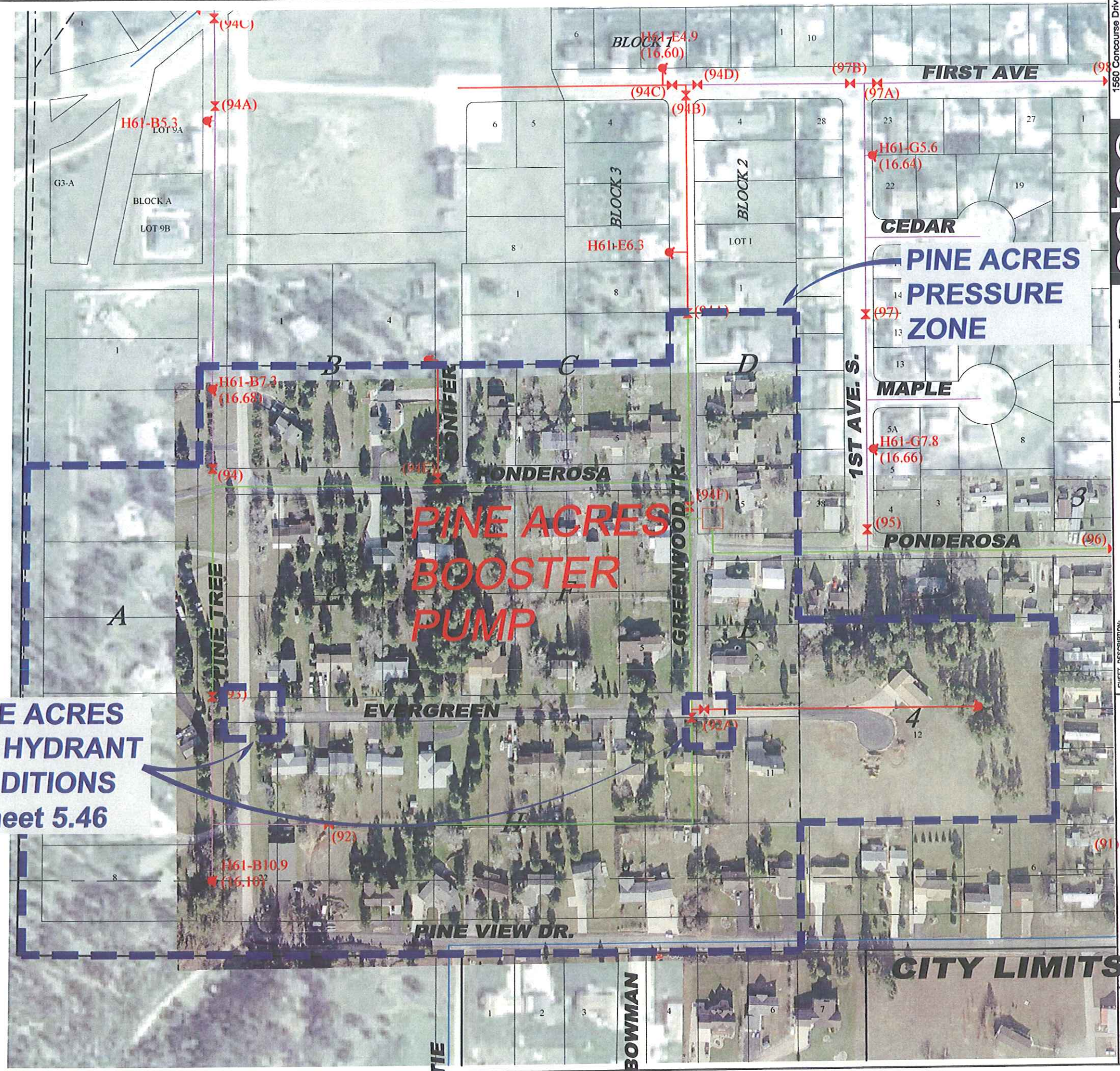
LEGEND



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NOTE:
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PINE ACRES FIRE HYDRANT ADDITIONS Sheet 5.46



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CHECKED: MS
APPROVED: BT
DATE: JUNE 30, 2010

PINE ACRES PRESSURE ZONE
FIRE HYDRANTS PLAN

STURGIS WATER SYSTEM IMPROVEMENTS
STURGIS MUNICIPAL UTILITY BOARD
STURGIS, SOUTH DAKOTA

2.8

JUNCTION AVENUE

JUNCTION AVENUE

PARK STREET

3. DAVENPORT STREET

DAVENPORT STREET

MARSHALL STREET

STURGIS REGIONAL HOSPITAL

FULTON STREET

HARMON STREET

CELIA STREET

WORK AREA 4B

FULL INTERSECTION CLOSURE IS PERMITTED. PROVIDE TRAFFIC CONTROL PER SDDOT DETAIL 634.24. PROVIDE DETOUR VIA DAVENPORT STREET AND TILFORD STREET.

WORK AREA 4A

FULL STREET CLOSURE IS PERMITTED. PROVIDE TRAFFIC CONTROL PER SDDOT DETAIL 634.29. PROVIDE DETOUR VIA BALDWIN STREET

WORK AREA 3

FULL STREET CLOSURE IS PERMITTED. PROVIDE TRAFFIC CONTROL PER SDDOT DETAIL 634.29. PROVIDE DETOUR VIA PARK STREET OR HARMON STREET

WORK AREA 2

FULL STREET CLOSURE IS PERMITTED. PROVIDE TRAFFIC CONTROL PER SDDOT DETAIL 634.29. PROVIDE DETOUR VIA PARK STREET AND BALDWIN STREET

WORK AREA 1C

MAINTAIN ONE-WAY SOUTHBOUND TRAFFIC DURING COMPLETION OF WORK AREA 1C. PROVIDE ONE-WAY TRAFFIC CONTROL AND DETOUR VIA PARK STREET BALDWIN STREET PER DETAILS

WORK AREA 1D

MAINTAIN ONE-WAY TRAFFIC PER SDDOT DETAIL 634.24

WORK AREA 1B

ONE DAY OF FULL CLOSURE IS PERMITTED FOR COMPLETION OF WORK AREA 1B PIPING AND 4 HOURS (MAX.) FOR WORK AREA 1B PATCHING. PROVIDE DETOUR VIA BALDWIN STREET

WORK AREA 6

MAINTAIN TWO-WAY TRAFFIC. TRAFFIC CONTROL PER DETAILS

WORK AREA 1A

FULL EASTBOUND AND WESTBOUND LANE CLOSURE IS ALLOWED DURING WORK WITHIN THE INTERSECTION DURING THE DAY. A MAXIMUM OF 2 DAYS OF FULL LANE CLOSURE IS PERMITTED DURING PIPE WORK AND 4 HOURS DURING PATCHING. PROVIDE TRAFFIC CONTROL PER DETAILS

WORK AREA 5C

MAINTAIN ONE-WAY TRAFFIC ON MARSHALL STREET PER SDDOT DETAIL 634.24. PROVIDE DETOUR FOR BALDWIN ST. PER DETAILS

WORK AREA 5B

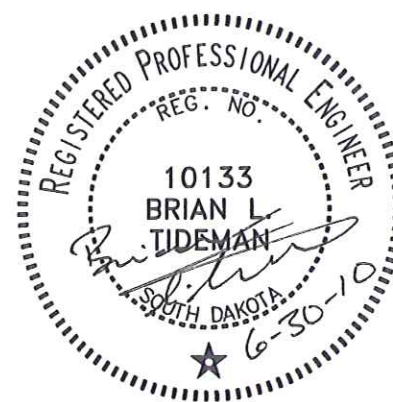
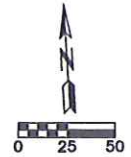
FULL STREET CLOSURE IS PERMITTED. PROVIDE TRAFFIC CONTROL PER SDDOT DETAIL 634.29. PROVIDE DETOUR VIA FULTON STREET

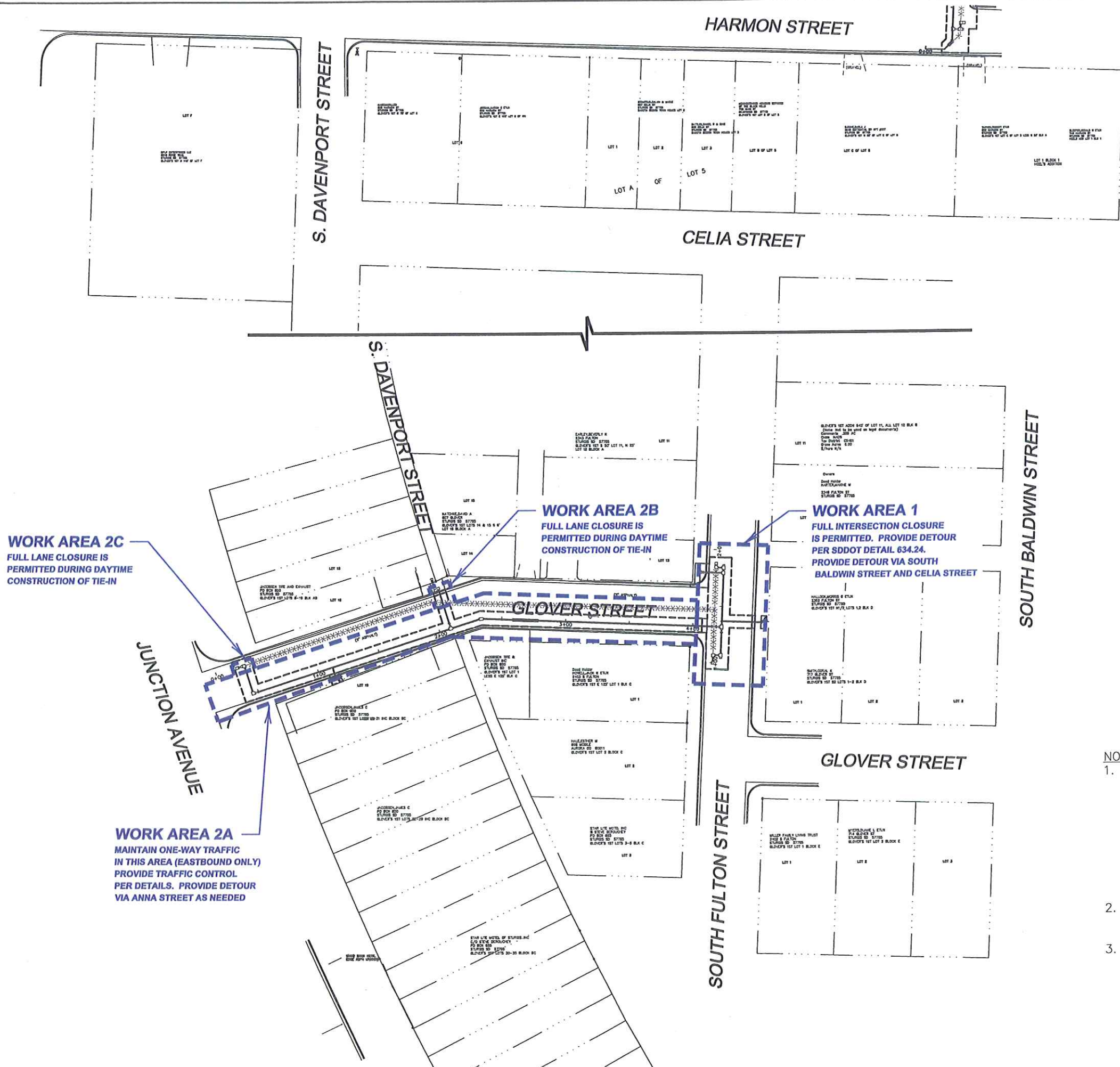
WORK AREA 5A

MAINTAIN ONE-WAY TRAFFIC ON HARMON STREET PER SDDOT DETAIL 634.24. PROVIDE DETOUR VIA FULTON STREET FOR BALDWIN STREET TRAFFIC PER DETAILS.

NOTES:

1. WORK AREAS AND TRAFFIC CONTROL NOTES ON THIS PLAN ARE DIAGRAMMATIC. WORK AREA NUMBERING IS THE SUGGESTED PHASING SEQUENCE. ACTUAL PHASING SHALL BE DETERMINED BY THE CONTRACTOR AND DEVELOPED PRIOR TO CONSTRUCTION. A TRAFFIC CONTROL PLAN SHALL BE PROVIDED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND SHALL BE BASED ON THE RECOMMENDATIONS OF THIS PLAN, THE TRAFFIC CONTROL NOTES, AND THE SPECIFICATIONS.
2. MAINTAIN TRAFFIC TO PRIVATE DRIVEWAYS PER THE TRAFFIC CONTROL NOTES AND SPECIFICATIONS.





- NOTES:
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 2. MAINTAIN TRAFFIC TO PRIVATE DRIVEWAYS PER THE TRAFFIC CONTROL NOTES AND SPECIFICATIONS.
 3. TEMPORARY TRAFFIC CONTROL DURING COMPLETION OF WORK WITHIN WORK AREAS 2B AND 2C SHALL BE ADJUSTED TO CLOSE GLOVER STREET TO ALL TRAFFIC. PROPERTY OWNERS SHALL BE NOTIFIED PER THE REQUIREMENTS OF THE SPECS AND TRAFFIC CONTROL SHALL BE ADJUSTED TO INFORM DRIVERS OF STREET CLOSURE. ADEQUATE DETOURS SHALL BE MARKED AS NEEDED.



JUNCTION AVENUE

PARK STREET

TILFORD STREET

DEADWOOD STREET

FULTON STREET

WORK AREA 1B

FULL INTERSECTION CLOSURE IS PERMITTED. PROVIDE TRAFFIC CONTROL PER DETAILS. PROVIDE DETOUR VIA TILFORD STREET AND FULTON STREET

WORK AREA 1A

FULL STREET CLOSURE IS PERMITTED. PROVIDE TRAFFIC CONTROL PER SDDOT DETAIL 634.29. PROVIDE DETOUR VIA FULTON STREET

WORK AREA 2

FULL STREET CLOSURE IS PERMITTED. PROVIDE TRAFFIC CONTROL PER SDDOT DETAIL 634.29. PROVIDE DETOUR VIA FULTON STREET

WORK AREA 3B

FULL STREET CLOSURE IS PERMITTED. PROVIDE TRAFFIC CONTROL PER SDDOT DETAIL 634.29. PROVIDE DETOUR VIA FULTON STREET

WORK AREA 4

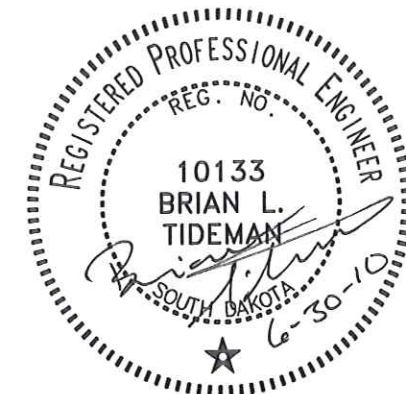
FULL INTERSECTION CLOSURE IS PERMITTED. PROVIDE TRAFFIC CONTROL PER DETAILS. PROVIDE DETOUR VIA TILFORD STREET AND FULTON STREET

WORK AREA 3A

FULL INTERSECTION CLOSURE IS PERMITTED DURING CROSSING OF TILFORD STREET ONLY. PROVIDE TRAFFIC CONTROL PER DETAILS. PROVIDE DETOUR VIA FULTON STREET AND PARK STREET

NOTES:

1. WORK AREAS AND TRAFFIC CONTROL NOTES ON THIS PLAN ARE DIAGRAMMATIC. WORK AREA NUMBERING IS THE SUGGESTED PHASING SEQUENCE. ACTUAL PHASING SHALL BE DETERMINED BY THE CONTRACTOR AND DEVELOPED PRIOR TO CONSTRUCTION. A TRAFFIC CONTROL PLAN SHALL BE PROVIDED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND SHALL BE BASED ON THE RECOMMENDATIONS OF THIS PLAN, THE TRAFFIC CONTROL NOTES, AND THE SPECIFICATIONS.
2. MAINTAIN TRAFFIC TO PRIVATE DRIVEWAYS PER THE TRAFFIC CONTROL NOTES AND SPECIFICATIONS.



cetec
ENGINEERING SERVICES, INC.

DESIGNED: BT
CHECKED: MS
APPROVED: TS
DATE: JUNE 30, 2010

DAVENPORT STREET
TRAFFIC CONTROL PLAN

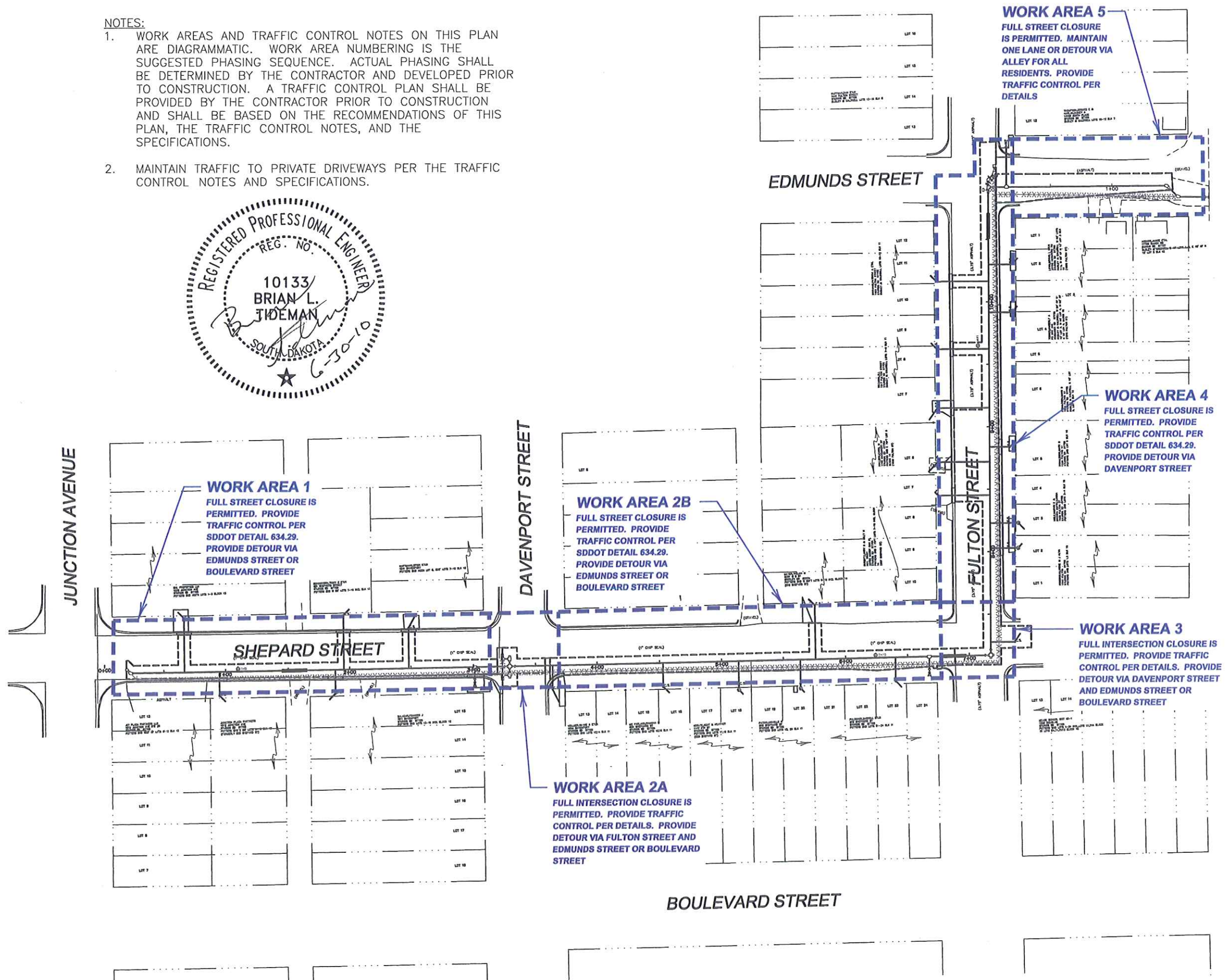
PROJECT: STURGIS WATER SYSTEM IMPROVEMENTS
STURGIS MUNICIPAL UTILITY BOARD
STURGIS, SOUTH DAKOTA

SHEET: 4.8

June 03, 2010 2:01:48 p.m.
Drawing: TRAFFIC CONTROL LOG (SOUTH) (\\WASH-DATA\CTC\PROJECTS & PROPOSALS\CONTROL LOGS\TRAFFIC CONTROL LOGS\WELLMANN DRAWINGS\)

NOTES:

1. WORK AREAS AND TRAFFIC CONTROL NOTES ON THIS PLAN ARE DIAGRAMMATIC. WORK AREA NUMBERING IS THE SUGGESTED PHASING SEQUENCE. ACTUAL PHASING SHALL BE DETERMINED BY THE CONTRACTOR AND DEVELOPED PRIOR TO CONSTRUCTION. A TRAFFIC CONTROL PLAN SHALL BE PROVIDED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND SHALL BE BASED ON THE RECOMMENDATIONS OF THIS PLAN, THE TRAFFIC CONTROL NOTES, AND THE SPECIFICATIONS.
2. MAINTAIN TRAFFIC TO PRIVATE DRIVEWAYS PER THE TRAFFIC CONTROL NOTES AND SPECIFICATIONS.



•LJMS

PROJECT.

STURGIS WATER SYSTEM IMPROVEMENTS
STURGIS MUNICIPAL UTILITY BOARD
STURGIS, SOUTH DAKOTA

SHEET DESCRIPTION:

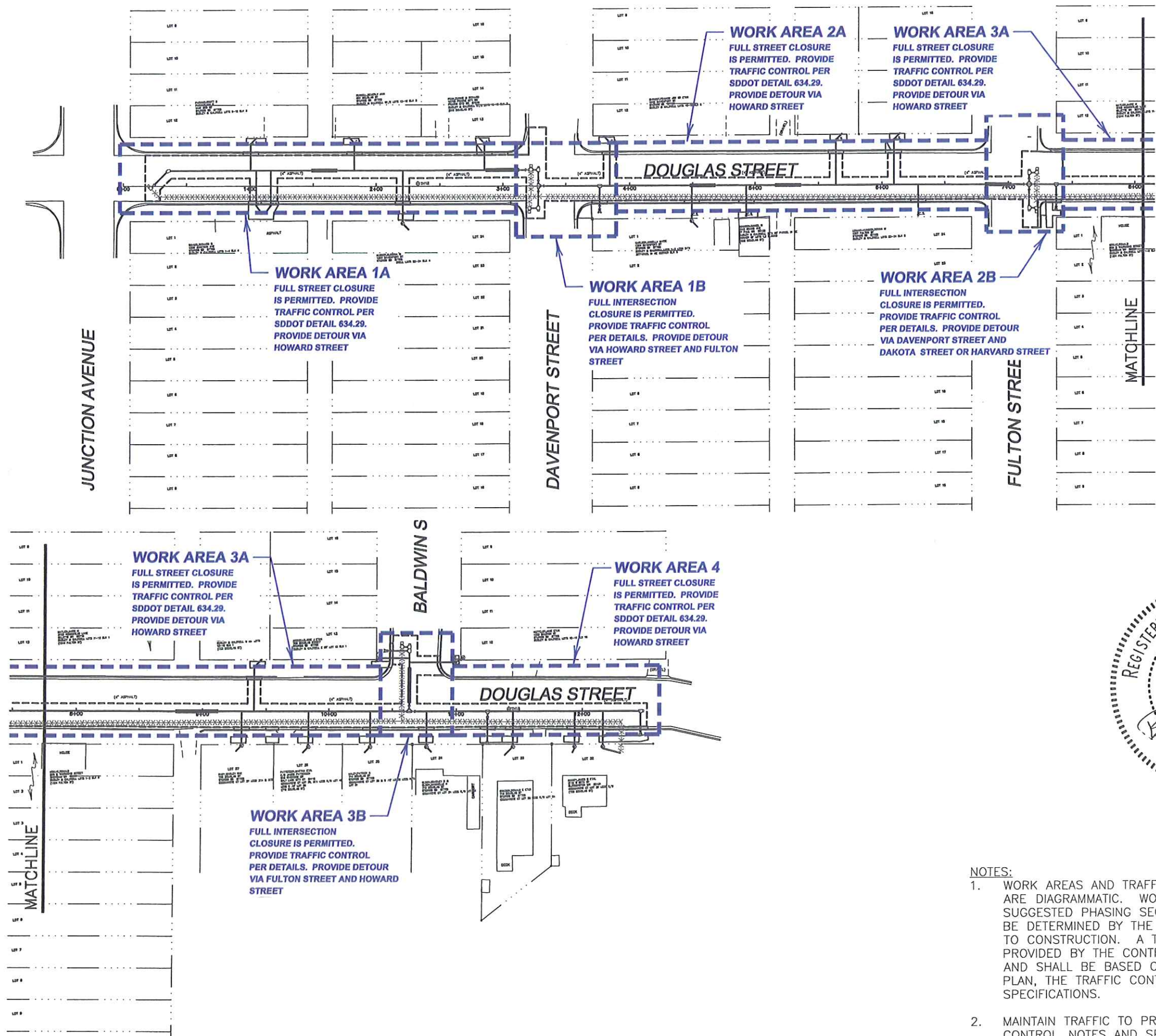
SHEPARD STREET
TRAFFIC CONTROL PLAN

DESIGNED BT
 DETAILED MS
 CHECKED TS
 APPROVED BT
 DATE JUNE 30 2010

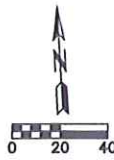
cetec
ENGINEERING SERVICES INC.

1560 Concourse Drive
Rapid City, SD 57703
Phone: (605) 341-7800
Fax: (605) 341-7864
cetcengineering.com

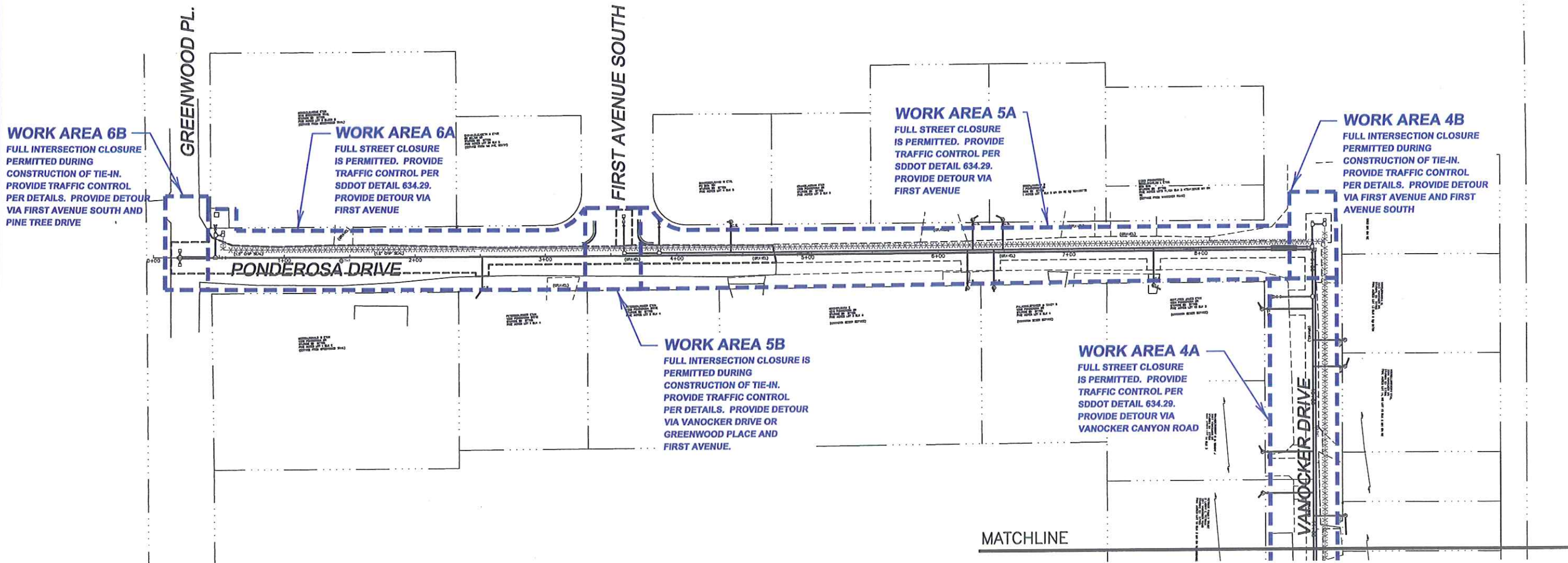
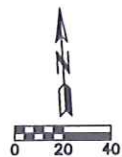
June 03, 2010 2:01 PM
Drawing: Traffic Control Plan (Sturgis Water System Improvements)
Sturgis Water System Improvements
Sturgis Municipal Utility Board
Sturgis, South Dakota



- NOTES:**
1. WORK AREAS AND TRAFFIC CONTROL NOTES ON THIS PLAN ARE DIAGRAMMATIC. WORK AREA NUMBERING IS THE SUGGESTED PHASING SEQUENCE. ACTUAL PHASING SHALL BE DETERMINED BY THE CONTRACTOR AND DEVELOPED PRIOR TO CONSTRUCTION. A TRAFFIC CONTROL PLAN SHALL BE PROVIDED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND SHALL BE BASED ON THE RECOMMENDATIONS OF THIS PLAN, THE TRAFFIC CONTROL NOTES, AND THE SPECIFICATIONS.
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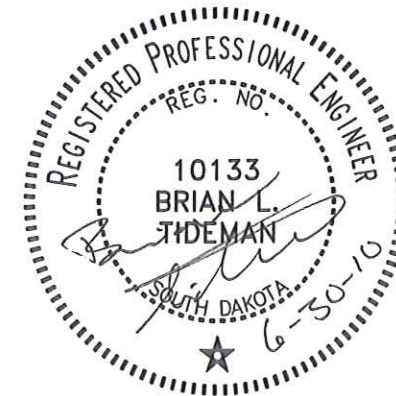
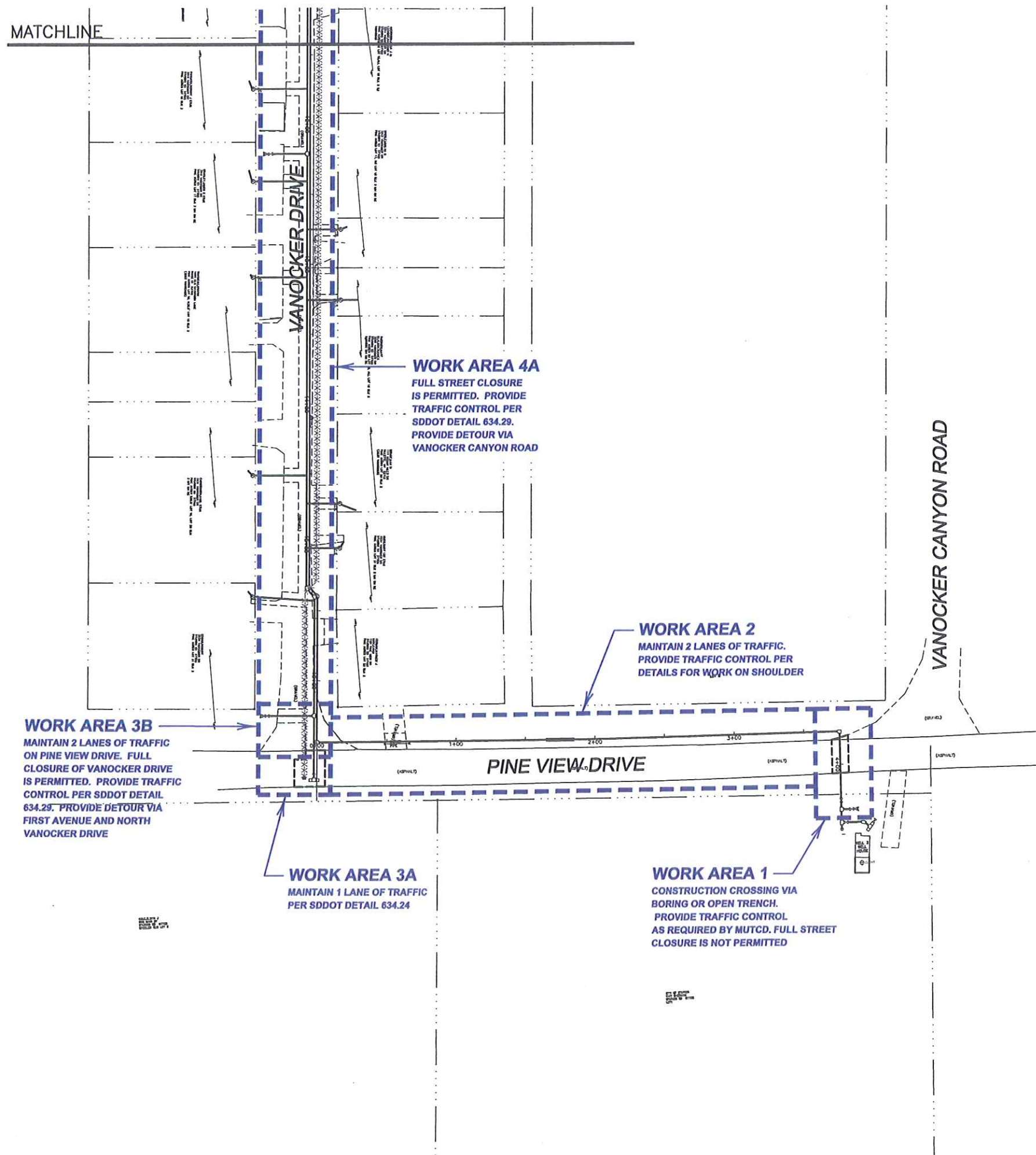


SHEET: 4.10	PROJECT: STURGIS WATER SYSTEM IMPROVEMENTS STURGIS MUNICIPAL UTILITY BOARD STURGIS, SOUTH DAKOTA	SHEET DESCRIPTION: DOUGLAS STREET TRAFFIC CONTROL PLAN	DESIGNED: BT	1560 Concourse Drive Rapid City, SD 57703 Phone: (605) 341-7800 Fax: (605) 341-7864 www.cetecengineering.com
			CHECKED: MS	cetek ENGINEERING SERVICES, INC.
APPROVED: BT	DATE: JUNE 30, 2010			



- NOTES:
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MATCHLINE



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